INCH-POUND

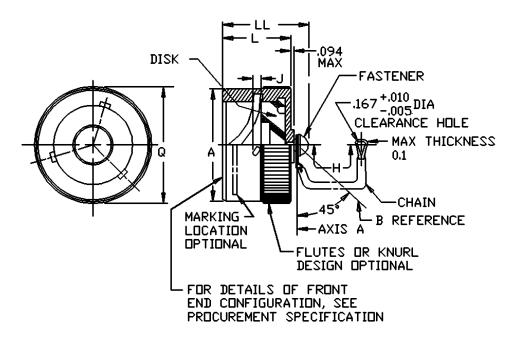
MS27502J 12 July 2002 SUPERSEDING MS27502H 31 March 1988

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, COVER, PROTECTIVE, RECEPTACLE, BAYONET COUPLING, SERIES I

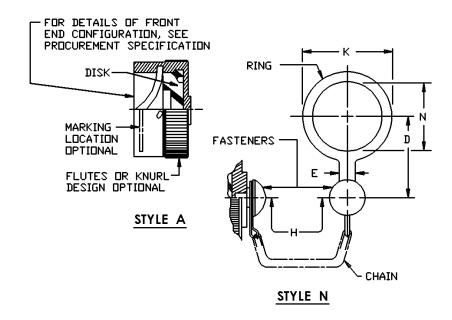
This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-38999.



STYLE C

FIGURE 1. Cover.



Shell size	A max dia	[)	E min ring	H +.50,25 Standard	J ±.015	K max dia	L max	LL max	N min dia	Q max dia
	dia	min	max	throat	chain length		uiu			uiu	did
9	.82	.71	1.03		3.0		1.03			.70	.86
11	.94	.74	1.13				1.21			.84	.98
13	1.10	.93	1.23				1.40			1.01	1 16
15	1.22	.99	1.29		3.5	.105	1.60			1.14	1.28
17	1.34	1.05	1.35	.23			1.70	.82	1.1	1.26	1.41
19	1.46	1.11	1.41				1.80			1.39	1.52
21	1.58	1.18	1.47				1.92			1.51	1.65
23	1.70	1.24	1.54		4.0		2.10			1.64	1.77
25	1.83	1.30	1.60			.138	2.20			1.76	1.89

FIGURE 1. Cover - Continued.

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Inches	mm								
.005	0.13	.74	18.8	1.13	28.7	1.39	35.3	1.77	45.0
.010	0.25	.82	20.8	1.14	29.0	1.40	35.6	1.80	45.7
.015	0.38	.84	21.3	1.16	29.5	1.41	35.8	1.83	46.5
.030	0.76	.86	21.8	1.18	30.0	1.46	37.1	1.89	48.0
.094	2.39	.93	23.6	1.21	30.7	1.47	37.3	1.92	48.7
.1	2.5	.94	23.9	1.22	31.0	1.51	38.4	2.10	53.3
.105	2.67	.98	24.9	1.23	31.2	1.52	38.6	2.20	55.9
.138	3.51	.99	25.1	1.24	31.5	1.54	39.1	3.0	76.2
.167	4.24	1.01	25.7	1.26	32.0	1.58	40.1	3.5	88.9
.23	5.8	1.03	26.2	1.28	32.5	1.60	40.6	4.0	101.6
.25	6.4	1.05	26.7	1.29	32.8	1.64	41.7		
.50	12.7	1.10	27.9	1.30	33.0	1.65	41.9		
.70	17.8	1.1	28.0	1.34	34.0	1.70	43.2		
.71	18.0	1.11	28.2	1.35	34.3	1.76	44.7		

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Finish: See MIL-DTL-38999.
- 4. Not for space born applications.

FIGURE 1. Cover - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1. Interface dimensions shall conform to MIL-DTL-38999. Material:

Cover - Impact extruded or machined aluminum alloy.

Disk – Silicone or fluorosilicone elastomer.

Ring – Stainless steel passivated, .030 max thickness.

Chain – Stainless steel, passivated.

Fastener – Stainless steel, passivated.

Mating connectors: MIL-DTL-38999 Series I, and MIL-C-27599 Series I.

Disk shall be bonded, or mechanically retained.

Chain shall rotate freely on cover fastener.

The protective cover and chain assembly shall withstand a static tensile load of 35 pounds applied along the B reference line for 5 minutes.

Fastener tensile strength: Both axial and longitudinal directions shall be 25 pounds. The load shall be applied to the end of the chain.

Qualification:

Examination of product.

Mating and unmating forces.

Humidity.

Salt spray (corrosion).

Fastener tensile strength (see requirement).

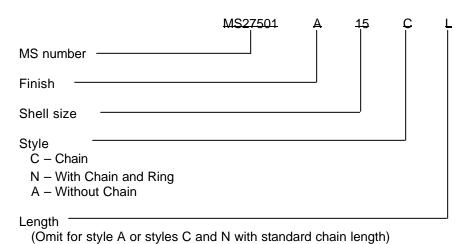
Altitude immersion.

Group A sampling inspection. 100% inspection is not applicable. Sampling inspection shall be in accordance with table I:

TABLE I. Group A sampling plan.

Lot size	Sample size			
	•			
1 to 13	100 percent			
14 to 150	13 units			
151 to 280	20 units			
281 to 500	29 units			
501 to 1,200	34 units			
1,201 to 3,200	42 units			

Part or Identifying Number (PIN) example:



L – 5 inch chain in lieu of standard length

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CONCLUDING MATERIAL

Custodians:

Army - CR Navy - AS

Air Force - 11

DLA - CC

Review activities:

Army - AR, MI Navy - EC, MC, OS Air Force - 19, 99 DLA - IS

Preparing activity: DLA - CC

(Project 5935-4401)